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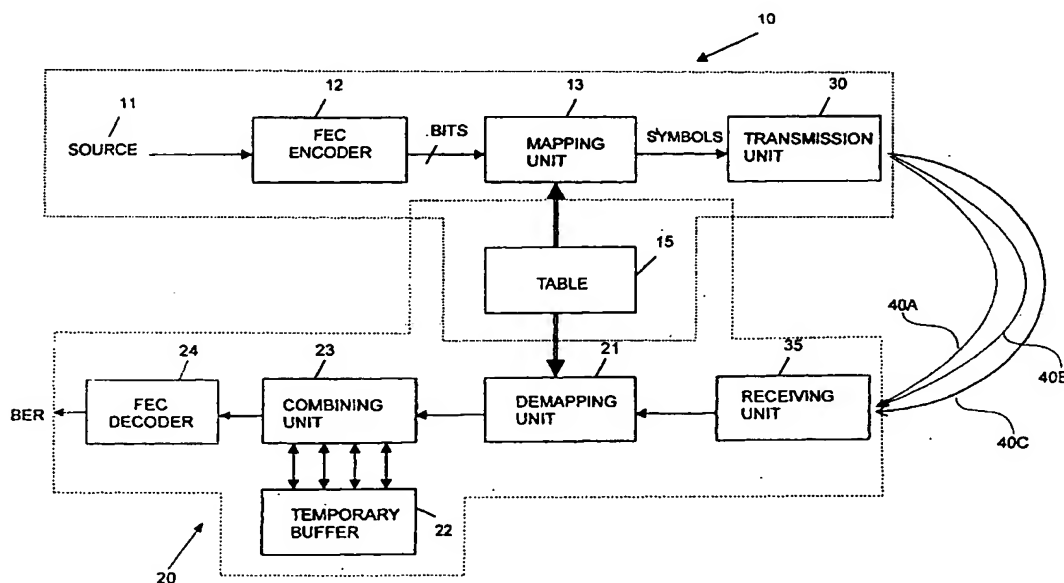
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(54) Title: **CONSTELLATION REARRANGEMENT FOR TRANSMIT DIVERSITY SCHEMES**



(57) **Abstract:** A method of transmitting data in a wireless communication system from a transmitter to a receiver, comprising the steps of modulating data at the transmitter using a first signal constellation pattern to obtain a first data symbol. The first data symbol is transmitted to the receiver using a first diversity branch. Further, the data is modulated at the transmitter using a second signal constellation pattern to obtain a second data symbol. Then, the second data symbol is transmitted to the receiver over a second diversity path. Finally, the received first and second data symbol are diversity combined at the receiver. The invention further relates to a transmitter and a receiver embodying to carry out the method of invention.

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